

IN THE CLAIMS:

1. (previously presented) A color projection system for projecting an image on a screen, comprising at least one light source for emitting a white light beam, a light splitting means for splitting said white light beam into color subbeams each comprising light of a different wavelength or wavelength range, for each of said color subbeams a light modulating means, and a dichroic prism for recombining said color subbeams, each of said modulating means positioned adjacent to a side of said dichroic prism,
wherein said color projection system furthermore comprises further optical components for imaging each of said color subbeams onto the relevant light modulating means such that the images of each of said color subbeams on the corresponding light modulating means have a substantially equal size and such that the images of each of said color subbeams on the screen have the same orientation and such that for an image representing a plane of equal color, the distance between the average color coordinates in the 1976 CIE Chromaticity Diagram for the ANSI-points at the left side of the image on the screen and for the ANSI-points at the right side of the image on the screen is smaller than 0.01.
2. (currently amended) A color projection system according to claim 1, wherein images of each of said color subbeams have a substantial equal size comprises that differences between the size of said images of each of said color beams on the corresponding light modulating means are smaller than 5%, ~~preferably smaller than 1%, more preferably smaller than 0.5%.~~
3. (previously presented) A color projection system according to claim 1, said color projection system adjusted such that the light path from the at least one light source to behind the dichroic prism is situated in one plane.
4. (cancelled)
5. (currently amended) A color projection system according to claim 1, said further optical components comprising a first imaging lens (54), whereby for

each color subbeam the light path length between the first imaging lens (54) and the light modulating means (56) is equal within 1%, ~~preferably equal within 0.1%, more preferably equal within 0.01%.~~

6. (currently amended) A color projection system according to claim 1, said further optical components comprising a first imaging lens ~~(54)~~ and said light splitting means comprising at least a first light splitting device ~~(102)~~ for splitting the white beam in a first color beam comprising light of a first wavelength or wavelength region and a further color beam, whereby said first light splitting device ~~(102)~~ is positioned in the pupil of the first imaging lens.
7. (currently amended) A color projection system according to claim 6, wherein said first light splitting device ~~(102)~~ is a dichroic mirror.
8. (original) A color projection system according to claim 7, wherein said dichroic mirror has a small incidence angle dependency.
9. (currently amended) A color projection system according to claim 8, said dichroic mirror transmitting a first part of the light beam and reflecting a second part of the light beam and having a 50% transmission point whereby 50% of the light beam is transmitted, wherein said small incidence angle dependency is such that the difference for the wavelength at which the 50% transmission point of the dichroic mirror is positioned for different angles of incidence, is smaller than 25 nm, ~~preferably smaller than 17 nm, more preferably smaller than 7 nm.~~
10. (original) A color projection system according to claim 1, wherein said further optical components furthermore comprise color filters.
11. (previously presented) A color projection system according to claim 1, wherein said optical components comprise a further number of imaging lenses positioned in the light paths of the different color subbeams downstream the first imaging lens, wherein either for each color subbeam, the number of imaging lenses is even or for each color subbeam the number of imaging

lenses is odd.

12. (original) A color projection system according to claim 1, wherein said optical components comprise a number of mirrors positioned in the light paths of the different color subbeams, wherein either for each color subbeam, the number of mirrors is even or for each color subbeam the number of mirrors is odd.
13. (previously presented) A color projection system according to claim 1, wherein said light modulating means are transmissive light modulating means and wherein said color projection system comprises no mirror between said transmissive light modulating means and said dichroic prism .
14. (previously presented) A method for projecting a color image, comprising the steps of ,
 - driving one or more light sources to create a white light beam,
 - splitting said white light beam in color subbeams, each comprising light of a different wavelength or wavelength region,
 - imaging each of said color subbeams on a light modulating means, positioned adjacent to a side of a dichroic prism,
 - modulating each of said color subbeams by said light modulating means and recombining said modulated color subbeams in said dichroic prism,
 - projecting said recombined light beam characterized by said imaging each of said color subbeams on a light modulating means is performed such that the image on the light modulating means has equal size for each of said color subbeams and such that the image on the screen has equal orientation for each of said color subbeams and such that in an image representing a plane of equal color, the distance between the average color coordinates in the 1976 CIE Chromaticity Diagram for the ANSI-points at the left side of the image on the screen and for the ANSI-points at the right side of the image on the screen is smaller than 0.01.
15. (currently amended) A method for projecting according to claim 14, said imaging is performed such that the light paths between a first imaging lens (64), being the imaging lens closest in the light path to the at least one light

source (52) and the light modulating means (56) for each of the color subbeams are equal in length within 1%, ~~preferably equal within 0.1%, more preferably equal within 0.01%.~~

16. - 21. (cancelled)

22. (previously presented) A color projection system according to claim 1 wherein the distance is smaller than 0.007.

23. (previously presented) A method according to claim 14 wherein the distance is smaller than 0.005.

24. (previously presented) A method according to claim 14 wherein the distance is smaller than 0.007.

25. (new) A color projection system according to claim 2, wherein differences between the size of said images of each of said color beams on the corresponding light modulating means are smaller than 1%.

26. (new) A color projection system according to claim 2, wherein differences between the size of said images of each of said color beams on the corresponding light modulating means are smaller than 0.5%.

27. (new) A color projection system according to claim 5, wherein the light path length between the first imaging lens and the light modulating means is equal within 0.1%.

28. (new) A color projection system according to claim 5, wherein the light path length between the first imaging lens and the light modulating means is equal within 0.01%.

29. (new) A color projection system according to claim 9, wherein the difference for the wavelength at which the 50% transmission point of the dichroic mirror is positioned for different angles of incidence, is smaller than 17 nm.

30. (new) A color projection system according to claim 9, wherein the difference for the wavelength at which the 50% transmission point of the dichroic mirror is positioned for different angles of incidence, is smaller than 7 nm.
31. (new) A method for projecting a color image according to claim 15, wherein the light paths between a first imaging lens, being the imaging lens closest in the light path to the at least one light source and the light modulating means for each of the color subbeams are equal in length within 0.1%.
32. (new) A method for projecting a color image according to claim 15, wherein the light paths between a first imaging lens, being the imaging lens closest in the light path to the at least one light source and the light modulating means for each of the color subbeams are equal in length within 0.01%.